

Claims

- 1 1. An interactive computer controlled display system  
2 with speech command input recognition comprising:  
3 means for predetermining a plurality of speech  
4 commands each associated with a corresponding plurality  
5 of system actions,  
6 means for concurrently detecting speech commands and  
7 speech queries for locating commands,  
8 means responsive to a detected speech command for  
9 carrying out the system action corresponding to the  
10 command, and  
11 means responsive to a detected speech query for  
12 attempting to locate commands applicable to said query.
- 1 2. The system of claim 1 further including means for  
2 displaying said detected speech query.
- 1 3. The system of claim 2 further including means for  
2 displaying located commands applicable to said query.
- 1 4. The system of claim 3 further including means  
2 responsive to a detected speech query for modifying a  
3 displayed prior speech query whereby a user may speak a  
4 displayed located command to activate said means for  
5 carrying out a system action or speak a query to modify  
6 said prior query to locate commands other than said  
7 displayed commands without switching between command and  
8 query modes of speech detection.
- 1 5. The system of claim 4 wherein said means for  
2 modifying said prior speech query replaces said prior  
3 query with a new speech query.

1 6. A method for providing speech command input to an  
2 interactive computer controlled display system with  
3 speech command input recognition comprising:  
4       predetermining a plurality of speech commands each  
5 associated with a corresponding plurality of system  
6 actions,  
7       concurrently detecting speech commands and speech  
8 queries for locating commands,  
9       responsive to a detected speech command, carrying  
10 out the system action corresponding to the command, and  
11       responsive to a detected speech query, attempting to  
12 locate commands applicable to said query.

1 7. The method of claim 6 further including the step of  
2 displaying said detected speech query.

1 8. The method of claim 7 further including the step of  
2 displaying located commands applicable to said query.

1 9. The method of claim 8 further including the step  
2 responsive to a detected speech query of modifying a  
3 displayed prior speech query whereby a user may speak a  
4 displayed located command to activate said carrying out  
5 of a system action or speak a query to modify said prior  
6 query to locate commands other than said displayed  
7 commands without switching between command and query  
8 modes of speech detection.

1 10. The method of claim 9 wherein said step of modifying  
2 said prior speech query replaces said prior query with a  
3 new speech query.

1 11. A computer program having program code included on a  
2 computer readable medium for speech command input  
3 recognition in an interactive computer controlled display  
4 system comprising:  
5 means for predetermining a plurality of speech  
6 commands each associated with a corresponding plurality  
7 of system actions,  
8 means for concurrently detecting speech commands and  
9 speech queries for locating commands,  
10 means responsive to a detected speech command for  
11 carrying out the system action corresponding to the  
12 command, and  
13 means responsive to a detected speech query for  
14 attempting to locate commands applicable to said query.

1 12. The computer program of claim 11 further including  
2 means for displaying said detected speech query.

1 13. The computer program of claim 12 further including  
2 means for displaying located commands applicable to said  
3 query.

1 14. The computer program of claim 13 further including  
2 means responsive to a detected speech query for modifying  
3 a displayed prior speech query whereby a user may speak a  
4 displayed located command to activate said means for  
5 carrying out a system action or speak a query to modify  
6 said prior query to locate commands other than said  
7 displayed commands without switching between command and  
8 query modes of speech detection.

- 1 15. The computer program of claim 14 wherein said means
- 2 for modifying said prior speech query replaces said prior
- 3 query with a new speech query.